

ICS 67.100.01
CCS X 16

SN

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 2552.7-2010

**Microbiological examination for milk and milk products
hygiene. Part 7: Detection of Enterobacter cloacae
(English Translation)**

Issued on: May 27, 2010

Implemented on: December 1, 2010

Issued by: General Administration of Customs

Table of Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Equipment and materials

4 Media and reagents

Foreword

SN/T 2552 "Milk and dairy products Hygienic science test methods" is divided into thirteen sections.

- Part 1. Guidance on sampling;
- Part 2. Preparation of test sample dilution;
- Part 3. yeast, mold colony count;
- Part 4. Psychrophile microbial colony counts;
- Part 5. Salmonella testing;
- Part 6. Citrobacter inspection;
- Part 7. Enterobacter cloacae inspection;
- Part 8. Proteus mirabilis and inspection;
- Part 9. Klebsiella test;
- Part 10. Enterobacter sakazakii immunofluorescence test;
- Part 11. Bacillus cereus Isolation and counting;
- Part 12. monocytogenes Listeria detection and counting;
- Part 13. Pseudomonas Isolation and counting.

This section is part 7 SN/T 2552's.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

This section drafted by. Chinese Academy of Inspection and Quarantine, Shenzhen
People's Republic of China Exit Inspection and Quarantine.

Introduction

Enterobacter cloacae (*Enterobacter cloacae*) Enterobacteriaceae Enterobacter mode bacteria widely distributed in nature, prevalent in the intestinal tract of humans and animals, it is in hospital infections and opportunistic infections common bacteria can cause food-borne illness, so often used as a condition Representative pathogens.

Enterobacter cloacae milk powder contamination has been concern, in April 2004, FAO and the World Health Organization Experts in assessing the safety of infant formula, think the importance of *Enterobacter cloacae* in neonate pathogenic cause is growing, and as *Enterobacter* representative (in infant formula found in low concentrations in) infant formula is a potential pathogen, making baby formula when the risk of pathogens analysis, *Enterobacter cloacae* as a category "B" dangerous biological agents.

According to the survey report shows that the content of the milk powder contamination of *Enterobacter cloacae* generally lower, for determining the method for the quantitative determination of sample volume 333g, to detect a small content of the sample target bacteria as possible.

Milk and dairy hygiene microbiology test methods Part 7. Inspection *Enterobacter cloacae*

1 Scope

This section SN/T 2552 provides for the separation of milk powder *Enterobacter cloacae* and counting methods.

This section applies to milk powder and separation of the gutter count of Enterobacteriaceae, milk and dairy products can refer to other use.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member, undated references, the latest edition (including any amendments) applies to this document.

SN/T 1538.1 media preparation Guide - Part 1. General laboratory quality assurance prepared medium
SN/T 1538.2 media preparation Guide Part 2. A Practical Guide to medium performance test
SN/T 2552.1 milk and dairy hygiene microbiology test methods - Part 1. Guidance on sampling

3 Equipment and materials

3.1

water bath. $45\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.

Thermometer 3.2. $1\text{ }^{\circ}\text{C} \sim 55\text{ }^{\circ}\text{C}$, sub-scale $0.1\text{ }^{\circ}\text{C}$.

3.3

Incubator. $36\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.

3.4

straw. 1mL, 5mL and 10mL, sub-scale 0.1mL.

3.5

coating bar.

3.6

inoculating loop.

3.7

Balance. Range 2kg, a sense of the amount of 0.1g.

3.8

Sterilization of sample preparation equipment. sampling spoon, scissors, can opener.

3.9

Sample dilution bottle. 100mL, 125mL, 250mL and 2L.

3.10 15mm x 150mm sterilized dishes.

3.11

Enterobacter cloacae control strains. ATCC35030 or similar strains.

3.12

API20E1) biochemical identification kits or similar products.

3.13

VITEK1) biochemical identification system or similar device.

4 Media and reagents

4.1

trypticase soy protein Agar (TSA). See Appendix A A.1 chapter.

1) API20E and VITEK is the trade name of the product supplied by the French company

bioMérieux. This information is given in order to facilitate the use of this section who does not imply endorsement of the product. If other equivalent product has the same effect, you can use these equivalent products.